Questions of grade four second term

April exam

عند إعداد الاختبار يراعي ما يلي :

- يغطى الاختبار كافة الدروس بدءًا من الوحدة الثانية الفصل الدراسي الاول (الحركة) المفهوم الرابع (الطاقة والتصادم) إلى نهاية النشاط (٧) تكوين الوقود الحفري (صفحة ٤٠) بالمفهوم الثانى (الوقود) من كتاب الفصل الدراسي الثاني بواقع سؤالين لكل مفهوم.
 - تتتوع أسئلة الاختبار الواحد من حيث نمط السؤال والمستوى الذي تقيسه.
 - يتم تقييم الأسئلة بحيث يأخذ التلميذ درجة السؤال كاملة إذا قدم إجابة علمية منطقية.
 - يتضمن الاختبار خمس أسئلة وكل سؤال عدد من المفردات بإجمالي (٢٠ مفردة) وإجمالي الدرجة النهائية للاختبار (٣٠ درجة)، وذلك على النحو التالي:

مجموع	درجة كل	عدد	نمط السؤال
الدرجات	مفردة	المفردات	تمط السوال
10	2	5	السؤال الأول: اختر الاجابة الصحيحة مما يبن القوسين
٥	•	5	السؤال الثانى : اكتب علامة ($$) أمام العبارة الصحيحة و علامة
	'	3	(X) أمام العبارة غير الصحيحة.
10	2	5	السؤال الثالث: اكتب المصطلح العلمي المناسب لكل عبارة من
	_		العبارات
٣	١	٣	السؤال الرابع: صل من العمود (أ) ما يناسبه من العمود (ب)
۲	١	۲	السؤال الخامس: الاسئلة المفتوحة (ماذا يحدث في الحالات التالية،
,	,	,	اكمل حسب الصورة التي امامك، فكر واجب)
٣.		15	المجموع

Q1: Put (V) or (X):

١.	The weight of the car affects its speed.	()
۲.	Because of the seat belt, the driver cannot see the road clearly.	()
.٣	After car collision, the air bag deflates the same speed as it inflates.	()
. ٤	The high-speed moving objects face less danger than the slower objects.	()
.0	The driver should drive as fast as possible to avoid accidents.	()
٦.	Mars is located a few meters away from Earth.	()
.٧	There is energy loss when energy is transformed from one form to another.	()
۸.	Energy cannot be transformed from one form to another.	()
.٩	Most of energy chains start with the moon energy.	()
٠١.	Both of the electric bulb and the electric heater produce thermal energy.	()
.11	When pedaling a bike, the chemical energy in your body turns into kinetic energy.	()
.17	There is a stored chemical energy inside the food we eat.	()
.۱۳	The produced sound energy helps the hair dryer to do its function.	()
.1 ٤	The energy chain of a burning candle is: chemical energy converted into thermal energy &light energy	()
.10	Mars Curiosity can be operated from a distance.	()
۲۱.	As the speed of the car increases, the amount of used fuel decreases.	()
.17	We cannot drive a car that doesn't contain fuel.	()
.14	Biofuel is one of non-renewable resources of energy.	()

.19	The Sun is the primary source of forming both biofuel and fossil	()
	fuel	

Q2 Write the scientific term of the following:

1.	The process in which two objects or more crash into each	()
	other and includes an energy transfer.	
2.	A liquid that stores the chemical energy and it is	()
	extracted from the fuel to move the car.	
3.	Safety equipment is used to prevent car passengers from moving forward when the car stops suddenly.	()
4.	Safety equipment that is used to provide soft cushion when it is inflated automatically with a gas during collision of cars.	()
5.	A heavy steel ball that swings on a cable and it is used in the destruction of parts of buildings.	()
6.	The form of energy that is stored in battery of remote controlling.	()
7.	The wasted energy from a computer.	()
8.	The stored energy in batteries in the light energy.	()
9.	The energy produced from playing the guitar.	()
10.	A device used to convert electrical energy into light energy.	()
11.	The energy produced when the wood of trees is burned.	()
12.	Energy can neither be created nor destroyed, but only converted from one form to another.	()
13.	A kind of energy that is produced from the electrical heater and burning coal.	()
14.	The energy that is produced from the blender and helps it in doing its job.	()
15.	The main sources of energy for most forms of energies on Earth.	()
16.	It is any substance which produces thermal energy on burning.	()
17.	Natural resources of energy which take a very long period of time to be formed.	()
18.	It is a type of fossil fuel that is produced from dead marine animals.	()
19.	It is a form of biofuel, which can be made from some	()

Q3:Choose from column (B) what suits it in column (A)

1-

A	В
1-The object's mass	a- It affects the kinetic energy of a
2-The object's height from the Earth's	moving object not on its potential
surface	energy.
3-The velocity of a moving object	b- It affects the kinetic energy and the
4-On the Erath's surface	potential energy of the object.
	c- when it decreases, the kinetic
	energy increases.
	d- when it increases, the stored
	potential energy increases.
	e-the potential energy equals zero.

2-

A	В
1- The sun	a- It is operated by electricity.
2- Benzene	b-Its light energy changes into
3- The fan	chemical energy in plants.
	c-It is a liquid that can be used as a
	fuel for cars.

3-

А	В
1-Water	a-It needs extreme heat and
2-Coal	pressure to be formed from remains
3-The sun	of dead plants.
	b-It is the main resource of energy
	on the Erath's surface.
	c-It is a liquid renewable resource of
	energy.

Q4: Complete the following:

1.

	will
2.	During a car crash, the is inflated with a gas .
3.	Engineers try to reduce the weight of the solar vehicles to increase its
4.	The speed of vehicles is slower than that of normal vehicles.
5.	When the mass of a moving object decreases, its kinetic energyat the same speed.
6.	To operate an electric mixer we use energy.
7.	The energy can be from one form to another.
8.	In any energy chain, some of the energy is lost in the form of
9.	The energy that is produced from the battery and used to operate a toy car is energy.
10.	The electric lamp converts energy into light and heat energy.
11.	In electric heater, Energy is considered as an input energy, while thermal energy is considered as energy.
12.	The mobile phone converts chemical energy stored in its batteries intoenergy and energy.
13.	When you ride a bicycle, theenergy stored in your body is converted into energy which causes the bicycle to move.
14.	The energies that are produced from the washing machine areenergy andenergy.
15.	On Mars planet, Curiosity robot can be operated for a long period of time by usingenergy from sunlight that is converted into

a

As a result of hitting the ball with the bat, the direction of the ball

	energy used to recharge its batteries.	
16.	Coal andcan be used in electric power station electricity.	ns to generate
17.	We can use some forms of fuel such asand houses.	in warming
18.	is example of biofuel, whileis examp	ole of fossil fuel.
Q5 :	Complete the write answer between bra	ckets:
1.	When the car stops suddenly, the passengers	(forward - backward)
2.	move When objects crash with each other, thentransfers between them.	(distance - energy)
3.	The big truck needs engine.	(big - small)
4.	When the car fuel completely runs out, then the car's becomes zero.	(mass - speed)
5.	Kinetic energy is not affected by the	(mass - color)
6.	In a battery of a toy car energy changes into electrical energy.	(chemical – sound)
7.	Curiosity rover is designed to explore	(Mars planet – The moon)
8.	Electric wires are made of	(wood – copper)
9.	When you use the hand ball, theenergy changed into sound energy.	(electrical – kinetic)
10.	When you turn on a light bulb, the electrical energy travels through until reaching the bulb.	(plastic – wires)
11.	Both hair dryer and electric water kettle produceenergy.	(thermal - light)
12.	The produced energy doesn't help the blender do its job.	(sound - kinetic)
13.	When a piece of coal is burnt energy is produced.	(potential - thermal)

14	The car needsto move.	(fuel - water)
1!	To keep playing with the toy car we have tothe batteries.	(replacing - heat)
10	All the following are found deeply under earth's surface except	(coal - green plant)
17	Coal is a type of fuel, which is used in all the following purposes except	(warming houses - operating T.V)
18	Ancient people use as a form of fuel before discovering gasoline.	e (wind - wood)
	<u>Q6:</u>	
	A. Answer the following questions	
2	works on starting the air bag inflating process in c	ase of accidents.
	B. What happens if?	
	1- The mass of a moving object increases when it mo	ves downward along
	a ramp. (according to its kinetic energy).	
	2- Two bicycles moving in an opposite direction collic	le with each other.
	3- Your hand is approached to lighting electric lamp.	
	4- The remains of marine were buried under the Erat millions of years.	h's surface over
	C. From the opposite figure:	
	a-What is the name of this device?	
	b-It changes energy fromenergy to	
	energy .	
	Q7: Choose the correct answer:-	
1.	A plugged-in lamp can turn energy to of a. electrical; light b- electrical	energy.
	-	l; light
	d. chemical; light d. chemi	

۲.	As energy transforms from one form to a	another, some of it is often lost as:
	a. light	b. heat
	c. sound	d. movement
	The airbag helps to	
	a-Reduce the speed of a person's movement forward.	b-Increase the speed of a person's movement forward.
	c-Reduce the speed of a person's	d-Increase the speed of the person's
	movement backwards.	movement backwards.
	T L 1 L 1 1	
4.	The airbag is made of	
	a-carton	b- nylon
	c-rubber	d-cloth
5.	All the following are found deeply under	the Earth's surface, <u>except</u>
	a-natural gas	b- coal
	c- green plants	d- oil
6.	is considered as the main resource	ce of energy on the Erath's surface.
	A-Gasoline	B- The Sun
	C-Natural gas	D- The Moon.

Questions of grade four second term

April exam

عد إعداد الاختبار براعي ما يلي :

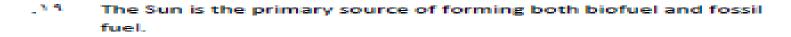
- يغطى الاختيار كافة الدروس بدءًا من الوحدة الثانية القصل الدراسي الاول (الحركة) المفهوم
 الرابع (الطاقة والتصادم) إلى تهاية التشاط (٧) تكوين الوقود الحفري (صفحة ٤٠) بالمفهوم
 الثاني (الوقود) من كتاب القصل الدراسي الثاني بواقع سؤالين لكل مفهوم.
 - تنتوع أسئلة الاختيار الواحد من حيث نمط السؤال والمستوى الذي تقيسه.
 - بتُم تَقْبِيم الأَستُلة بحبتُ بأخذ التلميذ درجة السؤال كاملة إذا قدم إجابة علمية متطفية.
 - بتضمن الاختيار خمس أسئلة وكل سؤال عدد من المفردات بإجمالي (۲۰ مفردة) وإجمالي
 الدرجة النهائية للاختيار (۳۰ درجة)، وذلك على النحو الثالي:

مجموع الدرجات	درجة كل مفردة	عدد المفردات	تمط المبؤال
10	2	5	المعوال الأول: اختر الاجابة الصحيحة مما بين القوسين
٥	,	5	العموال الثّاني : اكتب عائمة (√) أمام العبارة الصحيحة و عائمة (X) أمام العبارة غير الصحيحة.
10	2	5	الع موال الثّالث: اكتب المصبطلح العلمي المناسب لكل عبارة من العبارات
Ť	1		السوال الرابع : صل من العمود (١) ما يناسبه من العمود (ب)
۲	,		السوال الخامس : الاسئلة المفتوحة(ماذا يحدث في الحالات التالية، اكمل حسب الصورة التي امامك، فكر واجب)
**		15	المجموع



Q1: Put (V) or (X):

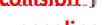
- .\ The weight of the car affects its speed.
- .Y Because of the seat belt, the driver cannot see the road clearly.
- .* After car collision, the air bag deflates the same speed as it inflates.
- . The high-speed moving objects face less danger than the slower objects.
- .º The driver should drive as fast as possible to avoid accidents.
- .\(\) Mars is located a few meters away from Earth.
- .V There is energy loss when energy is transformed from one form to another.
- .^ Energy cannot be transformed from one form to another.
- .4 Most of energy chains start with the moon energy.
- .) Both of the electric bulb and the electric heater produce thermal energy.
- . When pedaling a bike, the chemical energy in your body turns into kinetic energy.
- . Y There is a stored chemical energy inside the food we eat.
- . Yr The produced sound energy helps the hair dryer to do its function.
- . \ o Mars Curiosity can be operated from a distance.
 - As the speed of the car increases, the amount of used fuel decreases.
 - We cannot drive a car that doesn't contain fuel.
 - Biofuel is one of non-renewable resources of energy.





Q2 Write the scientific term of the following:

- (collision) The process in which two objects or more crash into each 1. other and includes an energy transfer.
- 2 A liquid that stores the chemical energy and it is extracted from the fuel to move the car.
- 3. Safety equipment is used to prevent car passengers from moving forward when the car stops suddenly.
- Safety equipment that is used to provide soft cushion when it is inflated automatically with a gas during collision of cars
- A heavy steel ball that swings on a cable and it is used in the destruction of parts of buildings.
- The form of energy that is stored in battery of remote controlling.
- 7 The wasted energy from a computer.
- The stored energy in batteries in the light energy.
- The energy produced from playing the guitar.
- A device used to convert electrical energy into light energy...
- The energy produced when the wood of trees is burned.
- Energy can neither be created nor destroyed, but only converted from one form to another.
- 13. A kind of energy that is produced from the electrical heater and burning coal.
- The energy that is produced from the blender and helps it in doing its job.
- The main sources of energy for most forms of energies on
- It is any substance which produces thermal energy on burning.
- Natural resources of energy which take a very long period of time to be formed.
- 18. It is a type of fossil fuel that is produced from dead marine animals
- It is a form of biofuel, which can be made from some



__gasoline

(Seat built

(airbag

Wrecking ball

⁽ chemical

(thermal

electric bulb

!--thermal!

Law of conservation of energy

(thermal-)

(--kinetic)

(---sun----)

(---fuel----)

Non-renewable energy resources

—Oil and natural gas

Liquid fuel



types of plants such as grass and wood chips.

Q3:Choose from column (B) what suits it in column (A)

11-

A	В
1-The object's mass	a- It affects the kinetic energy of a
2-The object's height from the Earth's	moving object not on its potential
surface	energy.
3-The velocity of a moving object	b- It affects the kinetic energy and the
4-On the Erath's surface	potential energy of the object.
e	c- when it decreases, the kinetic
	energy increases.
	d- when it increases, the stored
	potential energy increases.
	e-the potential energy equals zero.

2-

A	В
1- The sun	a- It is operated by electricity.
2- Benzene	b-Its light energy changes into
3- The fan	chemical energy in plants.
	c-It is a liquid that can be used as a
d	fuel for cars.

3-

	A	В
1-Water 2-Coal	C	a-It needs extreme heat and pressure to be formed from remains
3-The sun	a b	of dead plants. b-lt is the main resource of energy on the Erath's surface. c-lt is a liquid renewable resource of energy.



Q4 : Complete the following:

- As a result of hitting the ball with the bat, the direction of the ball will Change to opposite direction
- During a car crash, theairbag. is inflated with a gas.
- Engineers try to reduce the weight of the solar vehicles to increase its
 Speed
- 4. The speed of \$0 at ... vehicles is slower than that of normal vehicles.
- 5. When the mass of a moving object decreases, its kinetic energy decreases...at the same speed.
- 6. To operate an electric mixer we use electrical energy.
- 7. The energy can be from one form to another.
- 8. In any energy chain, some of the energy is lost in the form of .. heat...
- The energy that is produced from the battery and used to operate a toy car is electrical energy.
- 10. The electric lamp converts electrical ergy into light and heat energy.
- In electric heater electrical nergy is considered as an input energy, while thermal energy is considered as an energy.
- 12. The mobile phone converts chemical energy stored in its batteries intoenergy and ...sound. energy.
- 13. When you ride a bicycle, the **Chemical**ergy stored in your body is converted into _____ energy which causes the bicycle to move. kinetic
- 14. The energies that are produced from the washing machine are kinetienergy and ...sound..energy.
- On Mars planet, Curiosity robot can be operated for a long period of time by usingenergy from sunlight that is converted into solar

electrical energy used to recharge its batteries.

- 16. Coal and ...0il.....can be used in electric power stations to generate electricity.
- 17. We can use some forms of fuel such asandin warming houses.
- 18. Wood _____ is example of biofuel, while coal _____ is example of fossil fuel.

Q5: Complete the write answer between brackets:

When a piece of coal is burnt energy is

produced.

1.	When the car stops suddenly, the passengers	(forward - backward)
2.	move When objects crash with each other, then transfers between them	(distance - energy)
3.	The big truck needs engine.	(big - small)
4.	When the car fuel completely runs out, then the car's becomes zero.	(mass <u>- speed)</u>
5.	Kinetic energy is not affected by the	(mass - color)
6.	In a battery of a toy car energy changes into electrical energy.	(chemical – sound)
7.	Curiosity rover is designed to explore	(Mars planet – The moon)
8.	Electric wires are made of	(wood – copper)
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10.	When you turn on a light bulb, the electrical energy travels through until reaching the bulb.	(plastic – wires)
11.	Both hair dryer and electric water kettle produceenergy.	(thermal - light)
12.	The produced energy doesn't help the blender do its job.	(sound - kinetic)

(potential - thermal)

14.	The car needsto move.	(fuel - water)
15.	To keep playing with the toy car we have tothe batteries.	(replacing - heat)
16.	All the following are found deeply under earth's surface except	(coal - green plant)
17.	Coal is a type of fuel, which is used in all the following purposes except	(warming houses - operating T.V)
18.	Ancient people use as a form of fuel before discovering gasoline.	(wind - wood)
Q	<u>5 :</u>	
A.	Answer the following questions	
1 - Men	ation some of the safety equipment in the car?	
	Seat belt -Airbag	
₂ _senso	Sworks on starting the air bag inflating process in cas	e of accidents.
B. 1	What happens if? Kinetic en	ergy will increase
1-	The mass of a moving object increases when it move	
	a ramp. (according to its kinetic energy).	Collision and damage will be severe
	Two bicycles moving in an opposite direction collide	
	Your hand is approached to lighting electric lamp. V The remains of marine were buried under the Erath's	
	millions of years. Oil will be formed	s surface over
a-V b-li	What is the name of this device? Solar panels t changes energy from Solar energy to trical .energy .	
34 1000	7 : Choose the correct answer:-	ergy.

d. chemical; heat



d. chemical; light

٠,٢	As energy transforms from one form to another, some of it is often lost as:		
	a. light	b. Reat	
	c. sound	d. movement	
	The airbag helps to		
	a-Reduce the speed of a person's movement forward.	b-Increase the speed of a person's movement forward.	
	c-Reduce the speed of a person's movement backwards.	d-Increase the speed of the person's movement backwards.	
4.	The airbag is made of		
	a-carton (b- aylon	
	c-rubber	d-cloth	
5.	I the following are found deeply under the Earth's surface, <u>except</u>		
	a-natural gas	b- coal	
	c- green plants	d- oil	
6.	is considered as the main resource	ce of energy on the Erath's surface.	
	A-Gasoline C	B- The Sun	
	C-Natural gas	D- The Moon.	

